



U.S. Department of Energy
Office of River Protection
P.O. Box 450, MSIN H6-60
Richland, Washington 99352

0074133

OCT 10 2007

07-ESQ-166

Ms. Jane A. Hedges, Program Manager
Nuclear Waste Program
Washington State
Department of Ecology
3100 Port of Benton Blvd.
Richland, Washington 99354

RECEIVED
OCT 11 2007
EDMC

Dear Ms. Hedges:

SUBMITTAL OF HANFORD FACILITY RESOURCE CONSERVATION AND RECOVERY
ACT (RCRA) PERMIT MODIFICATION NOTIFICATION FORM 24590-HLW-PCN-ENV-
06-005

Reference: WA7890008967, "Dangerous Waste Portion of the Hanford Facility Resource
Conservation and Recovery Act Permit for the Treatment, Storage, and Disposal of
Dangerous Waste, Operating Unit 10, 'Waste Treatment and Immobilization
Plant.'"

This letter submits the Hanford Facility RCRA Permit Modification Notification Form 24590-
HLW-PCN-ENV-06-005 (attached). The form describes a requested Class 1 modification to the
Reference requiring approval from the Washington State Department of Ecology (Ecology).

Modification Notification Form 24590-HLW-PCN-ENV-06-005 updates the Process Flow
Diagram (24590-HLW-M5-V17T-P0006) for the High-Level Waste (HLW) Canister
Decontamination Handling System found in Appendix 10.1 of the Reference.

Ecology was provided an opportunity to review the modification notification form and the
associated information and comments were dispositioned.

If you have any questions, please contact me, or your staff may contact Lori A. Huffman, Office
of Environmental Safety and Quality, (509) 376-0104.

Sincerely,

Shirley J. Olinger, Acting Manager
Office of River Protection

ESQ:LAH

Attachment

cc: See page 2

Ms. Jane A. Hedges
07-ESQ-166

-2-

OCT 10 2007

cc w/attach:
Administrative Record
BNI Correspondence
Environmental Portal, LMSI

cc electronic:
B. Dubiel, BNI
W. S. Elkins, BNI
B. G. Erlandson, BNI
P. A. Fisher, BNI
J. S. Hill, BNI
S. Murdock, BNI
P. Peistrup, BNI
D. Becker, Ecology
B. Becker-Khaleel, Ecology (1 hard copy)
E. A. Fredenburg, Ecology
T. A. Williams, Ecology
S. A. Thompson, FHI
A. C. McKarns, RL
D. J. Sommer, SCS

cc w/o attach:
D. A. Klein, BNI
J. Cox, CTUIR
S. Harris, CTUIR
S. L. Dahl, Ecology
G. P. Davis, Ecology
G. Bohnie, NPT
K. Niles, Oregon Energy
R. Jim, YN

Attachment
07-ESQ-166

Hanford Facility RCRA Permit Modification Notification
Form 24590-HLW-PCN-ENV-06-005

Quarter Ending September 30,
2007

24590-HLW-PCN-ENV-06-005

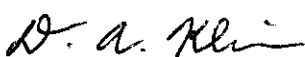
Hanford Facility RCRA Permit Modification Notification Form**Part III, Operating Unit 10****Waste Treatment and Immobilization Plant**

Index

Page 2 of 3: Hanford Facility RCRA Permit, Part III, Operating Unit 10, Waste Treatment and Immobilization Plant
Update HLW Vitrification Building Process Flow Diagram (PFD) for the HLW Canister Decontamination
Handling (HDH) System in Appendix 10.1 of the Dangerous Waste Permit.

Submitted by Co-Operator:

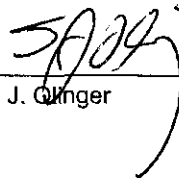
Reviewed by ORP Program Office:



D. A. Klein

9/15/07

Date



S. J. Genger

10/10/07

Date

Quarter Ending September 30,
2007

24590-HLW-PCN-ENV-06-005

| Hanford Facility RCRA Permit Modification Notification Form | | | | | | | | | | | | | | |
|--|---------------------------------|--|---------------------------------|---------|---------------|--|--|--|--|----------|---------------------------------|-------|---------------------------------|--|
| Unit: Waste Treatment and Immobilization Plant | | Permit Part & Chapter: Part III, Operating Unit 10 | | | | | | | | | | | | |
| <p>Description of Modification: The purpose of this Class 1 prime modification is to update the following Process Flow Diagram (PFD) for the HLW Canister Decontamination Handling (HDH) System. The following permitted PFD is being submitted to replace the document in Appendix 10.1.</p> | | | | | | | | | | | | | | |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="5" style="padding: 2px;">Appendix 10.1</td> </tr> <tr> <td style="width: 15%; padding: 2px;">Replace:</td> <td style="width: 35%; padding: 2px;">24590-HLW-M5-V17T-P0006, Rev. 2</td> <td style="width: 15%; padding: 2px;">With:</td> <td colspan="2" style="width: 35%; padding: 2px;">24590-HLW-M5-V17T-P0006, Rev. 3</td> </tr> </table> | | | | | Appendix 10.1 | | | | | Replace: | 24590-HLW-M5-V17T-P0006, Rev. 2 | With: | 24590-HLW-M5-V17T-P0006, Rev. 3 | |
| Appendix 10.1 | | | | | | | | | | | | | | |
| Replace: | 24590-HLW-M5-V17T-P0006, Rev. 2 | With: | 24590-HLW-M5-V17T-P0006, Rev. 3 | | | | | | | | | | | |
| <p>This modification requests Ecology approval and incorporation into the permit the specific changes to the PFD that are indicated by note 19, clouds, and revision triangles. Revisions are the result of ongoing design changes. The following is a summary of the significant changes on the attached drawing:</p> <ul style="list-style-type: none"> Addition and revision of notes Addition of references Addition of PJV vent demister <p>The following is a list of outstanding change documents that have not been incorporated into this modification: None</p> | | | | | | | | | | | | | | |
| WAC 173-303-830 Modification Class: ^{1 2} | | Class 1 | Class ¹ 1 | Class 2 | Class 3 | | | | | | | | | |
| Please mark the Modification Class: | | | X | | | | | | | | | | | |
| <p>Enter Relevant WAC 173-303-830, Appendix I Modification citation number: N/A</p> <p>Enter wording of WAC 173-303-830, Appendix I Modification citation:</p> <p>In accordance with WAC 173-303-830(4)(d)(i), this modification notification is requested to be reviewed and approved as a Class ¹1 modification. WAC 173-303-830(4)(d)(ii)(A) states, "Class 1 modifications apply to minor changes that keep the permit current with routine changes to facility or its operation. These changes do not substantially alter the permit conditions or reduce the capacity of the facility to protect human health or the environment. In the case of Class 1 modifications, the director may require prior approval."</p> | | | | | | | | | | | | | | |

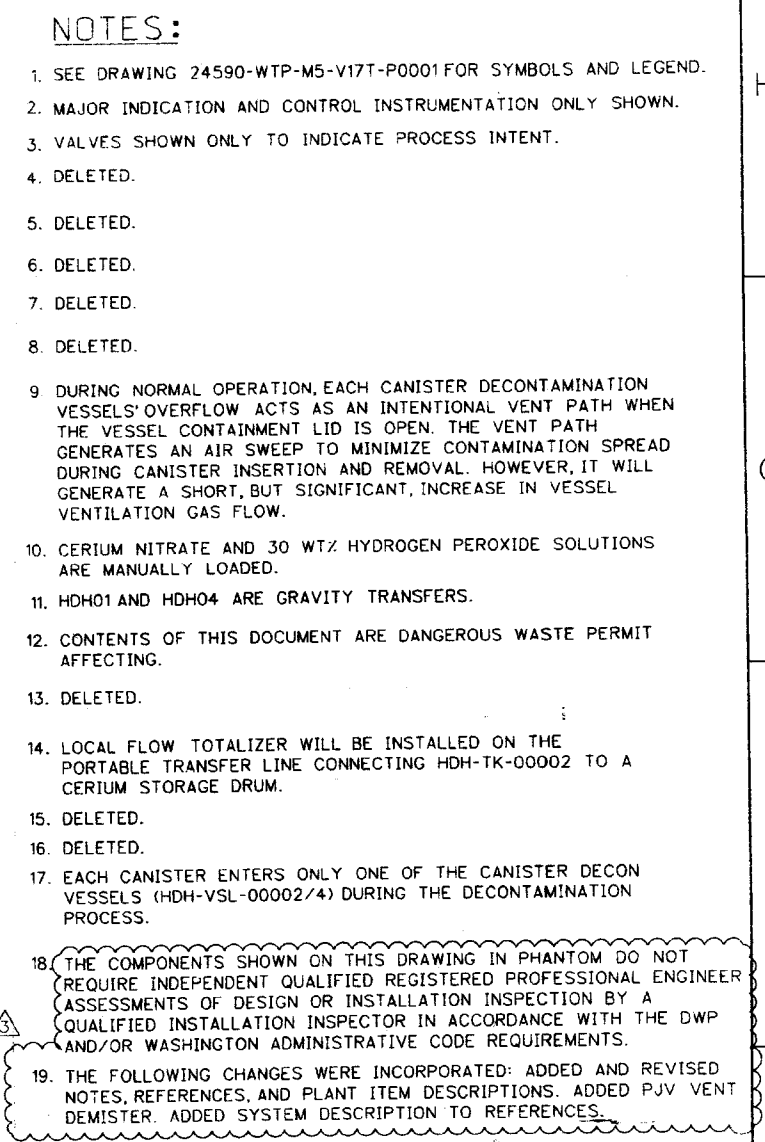
¹ Class 1 modifications requiring prior Agency approval.

² If the proposed modification does not match any modification listed in WAC 173-303-830 Appendix I, then the proposed modification should automatically be given a Class 3 status. This status may be maintained by the Department of Ecology, or down graded to a Class ¹1, if applicable.

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2007



24590-HLW-PCN-ENV-06-005

| | | |
|---|----------------------|------|
| Modification Approved: <input type="checkbox"/> Yes <input type="checkbox"/> No (state reason for denial) | Reviewed by Ecology: | |
| <u>Reason for denial:</u> | | |
| | B. Becker-Khaleel | Date |



2. DELETED.
3. DELETED.
4. DELETED.
5. DELETED.
6. DELETED.
7. DELETED.
8. DELETED.
9. DELETED.
10. DELETED.
11. DELETED.

| | | | | | | |
|-----|---|-----|------|------|------|---------|
| 3 | ISSUED FOR PERMITTING USE, SEE NOTE 19 FOR CHANGES | RR | NJ | JP | JFS | 3-22-05 |
| 2 | ISSUED FOR PERMITTING USE | RR | NJ | JP | JFS | 2-5-04 |
| 1 | ISSUED FOR PERMITTING USE | RR | SC | AD | GD | 10-4-02 |
| REV | DESCRIPTION | ORG | CHRG | RVWD | APVD | DATE |

| | | | |
|---|---------|---|--|
| PROJECT No. 24590 | |  RIVER PROTECTION PROJECT W/ "TREATMENT PLANT" 24590 STEVENS CENTER PLACE RICH, LA., WA 99354 | |
| SITE NAME GRD | | | |
| AREA 200E | | CONTRACT NO. DE AC27-UNRV136 | |
| BUILDING NO. 30 | | | |
| BY | DATE | <div style="text-align: center;"> <h1>PROCESS FLOW DIAGRAM</h1> <h2>HLW VITRIFICATION</h2> <h2>HLW CANISTER DECON</h2> <h3>(SYSTEM HDH)</h3> </div> | |
| R. RUSSELL | 10/3/02 | | |
| S. COLBY | 10/3/02 | | |
| C. DUNCAN | 10/4/02 | | |
| A. DADA | 10/4/02 | | |
| | | | |
| TO ALARA? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO | | REV 3 | |
| REV | | SCALE: NTS | |
| <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> EMBLONS OUT IF YES | | 24590-HLW-M5-V17T-P0006 | |
| FOR 2 E' SIZE = 4x5.54 COMPUTER GENERATED MANUAL CHANGES NOT PERMITTED | | 06/20/2007 13:10:59  | |

PLEASE NOTE THAT SOURCE, SPECIAL NUCLEAR, AND BYPRODUCT MATERIALS, AS DEFINED IN THE ATOMIC ENERGY ACT OF 1954 (AEA), ARE REGULATED AT THE U.S. DEPARTMENT OF ENERGY (DOE) FACILITIES EXCLUSIVELY BY DOE ACTING PURSUANT TO ITS AEA AUTHORITY. DOE ASSERTS, THAT PURSUANT TO THE AEA, IT HAS SOLE AND EXCLUSIVE RESPONSIBILITY AND AUTHORITY TO REGULATE SOURCE, SPECIAL NUCLEAR, AND BYPRODUCT MATERIALS AT DOE-OWNED NUCLEAR FACILITIES. INFORMATION CONTAINED HEREIN ON RADIOISOTOPES IS PROVIDED FOR PROCESS DESCRIPTION PURPOSES ONLY.